

Municipality of Anchorage

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Board Chair Tim Sullivan

Anchorage Water & Wastewater Utility

October 10, 2013

Director, Office of Water U.S. Environmental Protection Agency, Region 10 NPDES Compliance Unit 1200 Sixth Avenue, OW-133 Seattle, Washington 98101

Subject:

Whole Effluent Toxicity Testing Results

3rd Quarter 2013

NPDES Permit No. AK-002255-1

The John M. Asplund Water Pollution Control Facility permit requires that quarterly whole effluent toxicity (WET) testing reports be submitted with the discharge monitoring report (DMR) for the month following the test month. The enclosed report outlines test results for the short-term chronic toxicity test conducted for the third quarter of 2013 (24-hour composite sample collected August 27th, 2013). Effluent flow on the sampling day for this WET test sample was 28.86 MGD.

The permit requires that testing continue with the most sensitive species after an annual screening using three species. This quarter's test used the most sensitive species as demonstrated by the screening of all three species in second quarter 2013. The WET testing consisted of a fertilization test using the purple sea urchin (*Strongylocentrotus purpuratus*). The permit toxicity trigger of 143TUc was not exceeded in this test with a reported chronic toxicity of 71.4 TUc.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

I can be contacted at (907) 564-2799 or <u>mailto:Tom.Winkler@awwu.biz</u> should you have any questions.

Sincerely,

Tom Winkler

or replie ovia

Acting Director, Treatment Division - AWWU

Cc:

Alaska Department of Environmental Conservation, Division of Water

Rob Gustafson, Water Quality Supervisor, AWWU

Jeff Axman, Acting Superintendent, John M. Asplund WPCF, AWWU

Enclosure:

Pacific EcoRisk, WET test report

Community, Security, Prosperity

PERMITTEE NAME/ADDRESS

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMF

MONITORING PERIOD

Form Approved. OMB No. 2040-0004

NAME: ANCHORAGE, MUNICIPALITY OF

ADDRESS: 3000 ARCTIC BLVD.

ANCHORAGE, AK 99503-3998

FACILITY: JOHN M. ASPLUND WWTF----301 (H

LOCATION ANCHORAGE AK 99502

AK0022551 PERMIT NUMBER

YEAR MO DAY

001 A DISCHARGE NUMBER

YEAR MO DAY

DMR MAILING ZIP CODE: 99503

MAJOR (SUBR02)

*** NO DISCHARGE *** NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUALI	QUALITY OR CONCENTRAT		1	NO.	FREQUENCY	SAMPLE
		AVERAGE	MAXIMU	A UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	OF ANALYSIS	TYPE
CHLORINE, TOTAL RESIDUAL 50060 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	0.7	MG/L	0	EVERY 3 HRS	GRAB
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	1.2 DAILY MX	WIGIL		EVERY 4 HRS	GRAB
BOD, 5-DAY PERCENT REMOVAL 81010 K 0 0 PERCENT REMOVAL	SAMPLE MEASUREMENT	•••••	*****	****	49	*****	*****	%	N/A	Monthly	CALCTE
	PERMIT REQUIREMENT		*****	••••	REPORT MO AVG	*****	*****	76		Monthly	CALCTE
SOLIDS, SUSPENDED REMOVAL 81011 K 0 0 PERCENT REMOVAL	SAMPLE MEASUREMENT	******	*****	••••	75	******	*****	%	N/A	Monthly	CALCTE
	PERMIT REQUIREMENT	*****	*****	****	REPORT MO AVG	*****	*****			Monthly	CALCTE
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NAME/TITLE PRINCIPAL EXECUTIVE OFFI contrib under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified					der			ELEPHONE		DATE	
Tom Winkler Acting Director, Treatment Division gathering		el properly gather and evaluate the information submitted. Based on my inquiry of an or persons who manage the system, or those persons directly responsible for ig the information, the information submitted is, to the boast of my knowledge and up, accurate, and complete I am aware that there are significant penalties for ny fatise information, including the possibility of fine and impresomment for knowing in fatise information, including the possibility of fine and impresomment for knowing the properties of the properties			y of lor	Capitagule		64-2785	13	10	10
TWOCO OD DOWNTON belief, to					***	PRINCIPAL EXECUTIV	E AREA CODE	NUMBER	YEAR	MONTH	DAY

While Effluent Toxicity (WET) testing was completed on the Effluent composite sample collected August 27th, 2013. See attached WET Report for more details regarding this testing.

PAGE 3 OF 3



September 17, 2013

Gary Lawley Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501

Gary,

I have enclosed our report "NPDES Compliance Toxicity Testing of the City of Anchorage John M. Asplund Water Pollution Control Facility Effluent". This evaluation consisted of performing the US EPA echinoderm sperm fertilization short-term chronic toxicity test with the purple urchin, Strongylocentrotus purpuratus, using an effluent sample collected August 27, 2013. A summary of the results of this testing follows:

Chronic Effects of Anchorage Effluent on Purple Urchin Sperm Fertilization There were significant reductions in successful fertilization at the 2.8% effluent concentration; the NOEC was 1.4% effluent, resulting in 71.4 TUc.

If you have any questions regarding the performance and interpretation of this test, please contact my colleague Dr. Scott Ogle or myself at (707) 207-7760.

Sincerely,

Digitally signed by Alison Briden

Date: 2013.09.19 19:01:14

Alison Briden

Sr. Aquatic Ecotoxicologist

This testing was performed under Lab Order 21435. The test results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report, and only relate to the sample tested. This report shall not be reproduced, except in full, without the written consent of Pacific EcoRisk.

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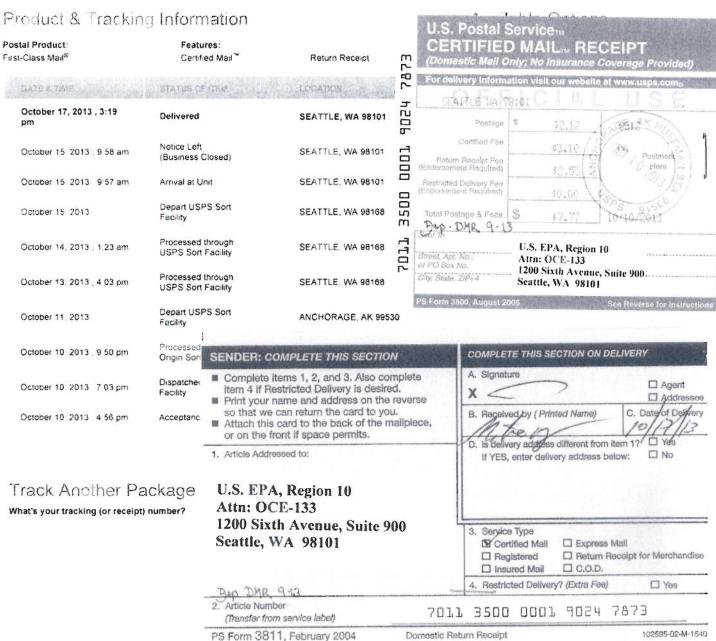
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Scheduled Delivery Day October 11, 2013

Product & Tracking Information

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Features: Certified Mail*

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CERTIFIED MAIL, RECEIPT 5.9 LOCATION DATE & TIME STATUS OF LIES 78 October 11, 2013, 12:58 ANCHORAGE, AK 99501 Delivered Postage October 11, 2013, 8 59 ANCHORAGE, AK 99501 Out for Delivery Cartified Fee Return Receipt Fee October 11, 2013, 8 49 ANCHORAGE, AK 99501 Sorting Complete Restricted Delivery Fee Endorsement Required) October 11, 2013 8-39 ANCHORAGE, AK 99501 Arrival at Unit Total Postage & Fees \$7.77 DMR 9-13 October 11, 2013 . 2 29 Processed at USPS Ak Dept of Environmental Conservation ANCHORAGE, AK 99530 -Origin Sort Facility Attn: Sherry Holm Division of Water or PO Box Na Depart USPS Son 555 Cordova Street ANCHORAGE, AK 99530 City. State. 289-4 October 11, 2013 Facility Anchorage, AK 99501 October 10 2013 9 50 Processed at USPS ANCHORAGE, AK 99530 Origin Sort Famility October 10, 2013, 7 03 Dispatched t SENDER: COMPLETE THIS SECTION COMPLETE THIS SECTION ON DELIVERY Facility Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. October 10 2013 4:57 Acceptance Print your name and address on the reverse so that we can return the card to you. Received by (Printed Name) Attach this card to the back of the mailpiece, -10411 or on the front if space permits. D. Is delivery address different from item 1? 1. Article Addressed to: If YES, enter delivery address below:

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